

# **MASK AND SUBSTRATE ALIGNMENT FOR SOLDER BUMP PROCESS**

## **Abstract**

A system for of aligning a mask to a substrate comprising: a fixture for holding the mask and the substrate in fixed positions relative to each other; means for holding the substrate, the means for holding the substrate protruding through openings in a table and the fixture, the means for holding fixedly mounted on a stage, the stage moveable in first and second directions and rotatable about an axis relative to the table; means for affixing the fixture containing the mask and the substrate to the table; means for controlling the means for temporarily affixing so as to generate a uniform force around a perimeter of the fixture to effectuate the temporarily affixing; means for aligning the mask to the substrate, the means for aligning controlling movement of the stage in the first and second directions and rotation about the axis; and means for fastening the fixture together.